

L3 ANSWER 141 OF 161 CA COPYRIGHT 2005 ACS on STN
AN 97:187071 CA
ED Entered STN: 12 May 1984
TI Refractory materials for the lining of molten metal vessels
PA Nippon Steel Corp., Japan; Nippon Crucible Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C04B035-66; B22D035-04
CC 57-6 (Ceramics)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 57088084 | A2 | 19820601 | JP 1980-163860 | 19801120 |
| PRAI | JP 1980-163860 | | 19801120 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|-------------|-------|------------------------------------|
| JP 57088084 | IC | C04B035-66IC B22D035-04 |

AB Refractory material containing refractory aggregate 50-85, SiC 13-50, and C 1.5-10% 100 parts is mixed with **water**-insol. Al tripolyphosphate 0.25-2.2, alkali metal silicate 0.4-2.2, and organic paste and/or clay 0.5-5 parts. Thus, a refractory mixture containing Al₂O₃ 70, graphite 4, SiC 26, Al tripolyphosphate 0.6, Na silicate 1, clay 1.5, and **water** 9 parts was molded, cured for 24 h, dried, and heated at 350° for 2 h to give a test piece having high resistance to erosion by molten pig iron.

ST alumina refractory lining; metal vessel lining refractory
IT Linings

(of vessels for molten metals, alumina refractory containing **silicon carbide** and graphite for)